

Tracking logs

- Tracking logs are made available as separate tar files on S3 in the course-data bucket.
- They are represented as JSON files that catalog all user interactions with the site.
- To avoid filename collisions the tracking logs are organized by server name, where each directory corresponds to a server where they were stored.

Common Fields

field	details	type	values/format
username	username of the user who triggered the event, empty string for anonymous events (not logged in)	string	
host	server name the user was visiting		
session	key identifying the user's session, may be undefined	string	32 digits key
time	GMT time the event was triggered	string	YYYY-MM-DDThh:mm:ss.xxxxxx
ip	user ip address	string	
agent	users browser agent string	string	
page	page the user was visiting when the event was generated	string	\$URL
event_source	event source	string	browser , server
event_type	type of event triggered, values depends on event_source	string	<i>more details listed below</i>
event	specifics of the event (dependency of the event_type)	string/json	<i>the event string may encode a JSON record</i>

Event Sources

The event_source field identifies whether the event originated in the browser (via javascript) or on the server (during the processing of a request).

Server Events

event_type	event fields	type	values/format	details	example
show_answer	problem_id	string		id of the problem being shown	"i4x://MITx/6.00x/problem/L15:L15_Problem_2"
save_problem_check	problem_id	string		id of the problem being shown	
	success	string	correct, incorrect	whether the problem was correct	
	attempts	integer		number of attempts	
	correct_map	string/json		<i>see details below</i>	

	state	string/json		current problem state	
	answers	string/json		students answers	
reset_problem	problem_id	string		id of the problem being shown	
	old_state	string/json			
	new_state	string/json			
\$URL	GET	string/json		GET request parameters	
	POST	string/json		POST request parameters	

key	correct_map fields	type	values/format	null allowed?	details
\$problem_id	hint	string			
	hintmode	boolean		yes	
	correctness	string	correct, incorrect		
	npoints	integer		yes	
	msg	string			
	queuestate	string/json	keys: key, time		

Browser Events

event_type	event fields	type	values/format	details	example
book	type	string	gotopage		
	old	integer	\$PAGE	from page number	2
	new	integer	\$PAGE	to page number	25
book	type	string	nextpage		
	new	integer	\$PAGE	next page number	10
page_close	empty	string		'page' field indicates which page was being closed	
play_video	id	string		edX id of the video being watched	"i4x-HarvardX-PH207x-video-Simple_Random_Sample"
	code	string		youtube id of the video being watched	"FU3fCJNs94Y"
	currentTime	float		time the video was paused at, in seconds	1.264
	speed	string	0.75, 1.0,	video speed being played	"1.0"

			1.25, 1.50		
pause_video	id	string		edX id of the video being watched	
	code	string		youtube id of the video being watched	
	currentTime	float		time the video was paused at	
	speed	string	0.75, 1.0, 1.25, 1.50	video speed being played	
problem_check	<i>none</i>	string		event field contains the values of all input fields from the problem being checked (in the style of GET parameters (key=value&key=value))	
problem_show	problem	string		id of the problem being checked	
seq_goto	id	string		edX id of the sequence	
	old	integer		sequence element being jumped from	3
	new	integer		sequence element being jumped to	5
seq_next	id	string		edX id of the sequence	
	old	integer		sequence element being jumped from	4
	new	integer		sequence element being jumped to	6